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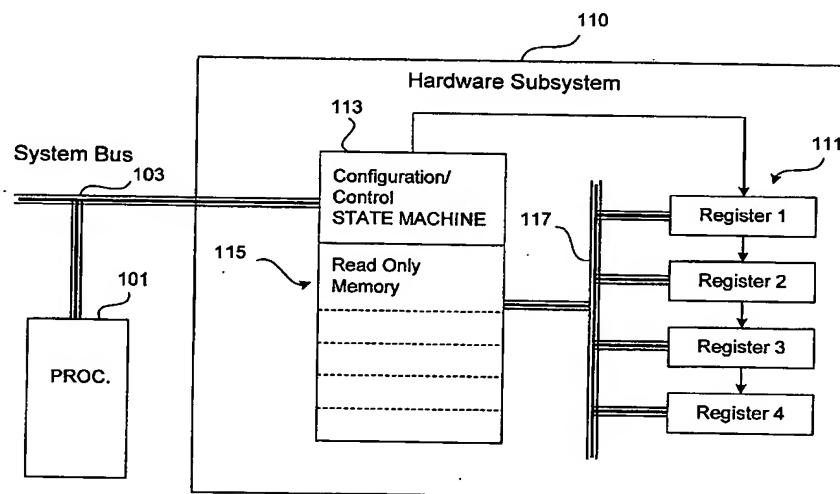
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- Declaration under Rule 4.17:**
- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,*

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- (54) Title:** ENCAPSULATED HARDWARE CONFIGURATION/CONTROL



- (57) Abstract:** A technique is provided for configuring and controlling complex hardware subsystems that relieves the burden placed on the system programmer and that is, by comparison to present methods, safe and error-free. In accordance with one aspect of the invention, configuration of a hardware subsystem (110) is accomplished by providing in hardware a configuration controller including a controller portion (113) and a storage portion (115) storing configuration parameters. The configuration controller (113) is activated, for example in response to a Configuration/Control ID, and thereupon performs configuration of the hardware subsystem (110), including storing at least one configuration parameter in a register (111) of the hardware subsystem. Typically, the configuration controller hardware (113) and storage (115) are embedded within the hardware subsystem to be configured or controlled. The configuration/control functionality is thus "encapsulated" within the hardware subsystem (110) itself such that the system programmer need not be concerned with details.



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